

WOA75-150 系列 AC/DC 便装一体化电源 技术指标书

Ver:1.0

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典型性能 Features

- ◆ 75~150 瓦功率输出
- ◆ 宽电压输入，交直流两用
- ◆ 过热保护，输出短路保护
- ◆ 高可靠性，高隔离耐压
- ◆ 金属外壳，安装方便（接线端子出线方式）
- ◆ 适用于电力、煤矿、工控、仪表等行业

电气特性 Electrical Specifications

| 输入特性 Input | Min | Type | Max | Notes |
|----------------------------------|--|-----------------------|--------------------|----------------------------------|
| 输入电压范围 Input Voltage Range | 176Vac (240Vdc) | 220Vac (300Vdc) | 264Vac (370Vdc) | |
| | 100Vac (140Vdc) | 220Vac (300Vdc) | 264Vac (370Vdc) | 输入电压宽范围，尾缀加W |
| 输入频率 Input Frequency | 45Hz | 50/60Hz | 65Hz | |
| 输出特性 Output | Min | Type | Max | Notes |
| 输出电压精度 Set point Accuracy | | | ±1% | |
| 负载效应 Load Regulation | | | ±0.5% | |
| 源效应 Line Regulation | | | ±1% | |
| 纹波噪声（注1） Ripple and Noise | | | 80mV | Vo≤5V Other Vo≥36V |
| | | | 150mV | |
| | | | 200mV | |
| 动态响应 Dynamic Response | ±5% Vo Pk deviation 400μs settling time | | | 25~50~25% Load 75~50~75% Load |
| 短路保护 Short-Circuit Protection | 长期短路自恢复 Continue Automatic Recovery | | | |
| 综合特性 General | Min | Type | Max | Notes |
| 隔离电压（注2） Isolation Voltage | | | 2500Vac | 输入与输出 Input-Output |
| | | | 2000Vac | 输入与壳 Input-Case |
| | | | 500Vac | 输出与壳 Output-Case |
| 开关频率 Switching Frequency | 100KHz | | 200KHz | |
| 平均故障间隔时间 MTBF | | 5×10 ⁵ Hrs | | Mil HDBK 217F Tc=25℃ |
| 工作壳温 Case Temperature | 工业级 | -40℃ | +85℃ | |
| | AD、AG级 | -40℃ | +90℃ | |

| | | | | |
|-------------------------------------|---|--------------|------------------|--|
| 储存温度 Storage Temperature | -45℃ | | +105℃ | |
| 相对湿度 Relative Humidity | 5% | | 95% | |
| 传导骚扰 Conducted Emission | EN55022-2010 GB/T 24338.4-2009 GJB151B-2013 | | | |
| 静电放电 Electrostatic Discharge | GB17626.2/EN61000-4-2 | Contact ±6KV | | |
| 脉冲群抗扰度 Electrical Fast Transient | GB17626.4/EN61000-4-4 | ±2KV | perf. Criteria A | |
| 浪涌抗扰度 Surge Immunity | GB17626.5/EN61000-4-5 | ±2KV | perf. Criteria B | |

注 1：纹波噪声采用 20MHz 带宽、平行线法测试；

注 2：交流电压测试漏电流为 5mA，直流电压测试漏电流为 0.5mA；

产品型号列表 Product Model List

| 型号 Models | 输入电压 范围 (Vdc) Input Voltage Range | 输出电压 (Vdc) Output Voltage | 输出电流 (A) Output current | 纹波噪声 (mv) Ripple and noise | 典型效率 Efficiency | 容性负载 (μF) Max.Capacitor Load |
|--------------------|---|------------------------------------|----------------------------------|-------------------------------------|--------------------|------------------------------------|
| WOA75-220S5(-DB) | 176-264Vac | 5.1 | 12 | 80 | 81% | 4700 |
| WOA75-220S9(-DB) | 176-264Vac | 9 | 8 | 150 | 83% | 2200 |
| WOA75-220S12(-DB) | 176-264Vac | 12 | 6 | 150 | 84% | 2200 |
| WOA75-220S15(-DB) | 176-264Vac | 15 | 5 | 150 | 84% | 2200 |
| WOA75-220S18(-DB) | 176-264Vac | 18 | 4 | 150 | 84% | 2200 |
| WOA75-220S24(-DB) | 176-264Vac | 24 | 3 | 150 | 85% | 1000 |
| WOA75-220S28(-DB) | 176-264Vac | 28 | 2.5 | 150 | 85% | 1000 |
| WOA75-220S36(-DB) | 176-264Vac | 36 | 2 | 200 | 87% | 470 |
| WOA75-220S48(-DB) | 176-264Vac | 48 | 1.5 | 200 | 87% | 470 |
| WOA75-220S5W(-DB) | 100-264Vac | 5.1 | 12 | 80 | 80% | 4700 |
| WOA75-220S9W(-DB) | 100-264Vac | 9 | 8 | 150 | 82% | 2200 |
| WOA75-220S12W(-DB) | 100-264Vac | 12 | 6 | 150 | 83% | 2200 |
| WOA75-220S15W(-DB) | 100-264Vac | 15 | 5 | 150 | 83% | 2200 |
| WOA75-220S18W(-DB) | 100-264Vac | 18 | 4 | 150 | 83% | 2200 |
| WOA75-220S24W(-DB) | 100-264Vac | 24 | 3 | 150 | 84% | 1000 |
| WOA75-220S28W(-DB) | 100-264Vac | 28 | 2.5 | 150 | 84% | 1000 |
| WOA75-220S36W(-DB) | 100-264Vac | 36 | 2 | 200 | 86% | 470 |
| WOA75-220S48W(-DB) | 100-264Vac | 48 | 1.5 | 200 | 86% | 470 |
| WOA100-220S5(-DB) | 176-264Vac | 5.1 | 15 | 80 | 81% | 4700 |
| WOA100-220S9(-DB) | 176-264Vac | 9 | 11 | 150 | 83% | 2200 |
| WOA100-220S12(-DB) | 176-264Vac | 12 | 8.5 | 150 | 84% | 2200 |
| WOA100-220S15(-DB) | 176-264Vac | 15 | 6.5 | 150 | 84% | 2200 |
| WOA100-220S18(-DB) | 176-264Vac | 18 | 5.5 | 150 | 84% | 2200 |
| WOA100-220S24(-DB) | 176-264Vac | 24 | 4 | 150 | 85% | 1000 |
| WOA100-220S28(-DB) | 176-264Vac | 28 | 3.5 | 150 | 85% | 1000 |
| WOA100-220S36(-DB) | 176-264Vac | 36 | 2.5 | 200 | 87% | 470 |
| WOA100-220S48(-DB) | 176-264Vac | 48 | 2 | 200 | 87% | 470 |

| | | | | | | |
|--------------------|------------|----|-----|-----|-----|------|
| WOA125-220S12(-DB) | 176-264Vac | 12 | 10 | 150 | 84% | 2200 |
| WOA125-220S15(-DB) | 176-264Vac | 15 | 8 | 150 | 84% | 2200 |
| WOA125-220S18(-DB) | 176-264Vac | 18 | 6.5 | 150 | 84% | 2200 |
| WOA125-220S24(-DB) | 176-264Vac | 24 | 5 | 150 | 85% | 1000 |
| WOA125-220S28(-DB) | 176-264Vac | 28 | 4.2 | 150 | 85% | 1000 |
| WOA125-220S36(-DB) | 176-264Vac | 36 | 3.2 | 200 | 87% | 470 |
| WOA125-220S48(-DB) | 176-264Vac | 48 | 2.5 | 200 | 87% | 470 |
| WOA150-220S24(-DB) | 176-264Vac | 24 | 6 | 150 | 85% | 1000 |
| WOA150-220S28(-DB) | 176-264Vac | 28 | 5 | 150 | 85% | 1000 |
| WOA150-220S36(-DB) | 176-264Vac | 36 | 4 | 200 | 87% | 470 |
| WOA150-220S48(-DB) | 176-264Vac | 48 | 3 | 200 | 87% | 470 |

注 3：我公司该系列产品按照功率进行分类，分别为 75W、100W、150W（尾缀加 M）；可参考“机械图及管脚说明”来确定端子连接形式和产品名称；以上表格中仅列出典型型号，我公司可根据客户需求信息（包括功率、输入电压、输出电压、负载特性等）来单独设计。

机械图及管脚说明（Mechanical Chart、Pins）（Unit: mm）

产品尾缀不带 DB

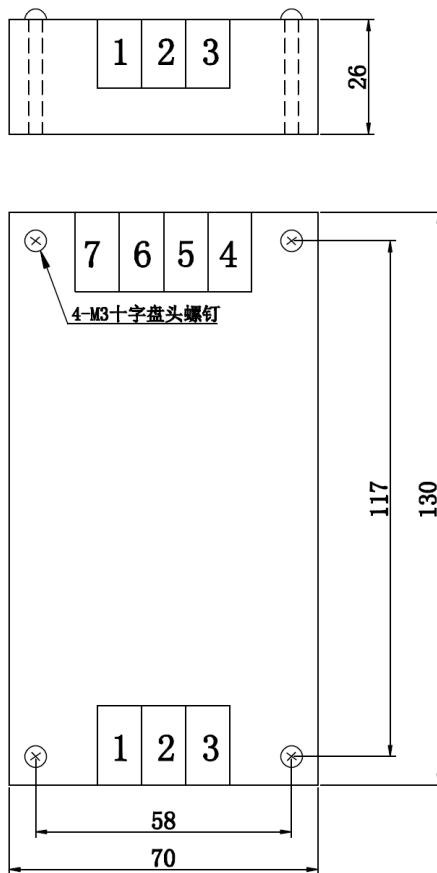


图 1

产品尾缀带 DB

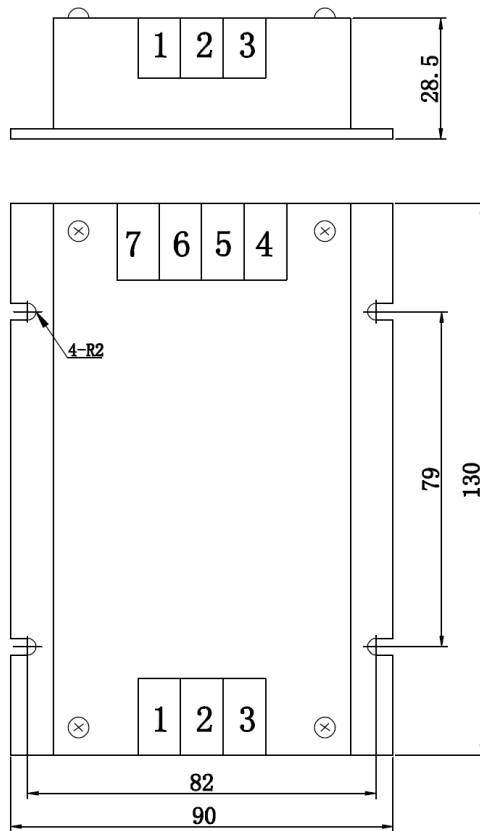


图 2

| 项目 | 交流输入端 | | | 直流输出端 | | | |
|----|-------|------|------|-------|-----|------------|------------|
| 管脚 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 定义 | Gr | ACin | ACin | +Vo | -Vo | NC | NC |
| 说明 | 壳 | 交流输入 | 交流输入 | 输出正 | 输出负 | 无连接 空管脚 | 无连接 空管脚 |

注 4： 外壳安装定位尺寸公差按 GB/T1804-2000 F 级标准，外型尺寸公差按 GB/T1804-2000 C 级标准；

注 5：

- 1) 端子管脚顺序依次从左往右；
- 2) 安装孔数量 4 个，均为 U 型孔（安装板深度约 3mm），推荐采用 M3 螺钉固定电源机壳；